

IN THE CLAIMS:

Please cancel Claim 13.

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Please amend Claim 1 as follows:

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1. (Amended) A liquid crystal display apparatus comprising:
a liquid crystal display panel having a predetermined display characteristic;
a luminescent unit located adjacent to the liquid crystal display panel, wherein the
luminescent unit includes a light collector, which collects ambient light, and a light source,
5 wherein the collected ambient light is used as a backlight of the liquid crystal display panel;
a light receiving device substantially countering the ambient light directed to the light
collector to detect the amount of ambient light collected by the light collector; and
a control circuit electrically connected to the liquid crystal display panel and the light
receiving device, wherein the control circuit varies the predetermined display characteristic in
10 accordance with the amount of the detected ambient light.

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Please amend Claim 14 as follows:

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14. (Amended) The apparatus according to claim 1, wherein the light receiving
device is located in the proximity of the light collector.

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[Please amend Claim 15 as follows:]

15. (Amended) A liquid crystal display apparatus comprising:
a liquid crystal display panel having a predetermined display characteristic;

a luminescent unit arranged adjacent to the liquid crystal display panel for providing light to the display panel to illuminate the display panel, wherein the luminescent unit includes a light collector, which collects ambient light, and a light source, wherein the collected ambient light is used as a backlight of the liquid crystal display panel;

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a light receiving device substantially countering the ambient light directed toward the light collector to generate a light amount signal corresponding to the amount of ambient light collected by the light collector; and

a control circuit electrically connected to the liquid crystal display panel and the light receiving device, wherein the control circuit varies the predetermined display characteristic in accordance with the light amount signal.

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Please amend Claim 20 as follows:

20. (Amended) A liquid crystal display apparatus comprising:

a liquid crystal display panel for displaying an image having a predetermined contrast ratio and brightness;

a luminescent unit arranged adjacent to the liquid crystal display panel, wherein the luminescent unit includes a light collector, which collects ambient light, a light source, and a cover, which opens and closes to selectively cover the light collector, wherein the collected ambient light is used as a backlight for the liquid crystal display panel;

a cover driving apparatus for opening and closing the cover;

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a light receiving device substantially countering the ambient light directed toward the light collector to generate a light receiving signal corresponding to the amount of ambient light collected by the light collector; and

5 a control circuit connected to the liquid crystal display panel, the light receiving device, the light source, and the cover driving apparatus, wherein the control circuit controls the ON/OFF of the light source, the opening and closing of the cover, and adjusts the contrast ratio and the brightness in accordance with the light receiving signal.

AB ☒ Please amend Claim 21 as follows: ☐

21. (Amended) The apparatus according to claim 20, wherein the control circuit includes:

5 a judgement circuit for generating at least one of a contrast ratio adjustment signal, a brightness adjustment signal, a cover driving signal and an ON/OFF signal in accordance with the light receiving signal;

a contrast ratio adjustment circuit connected to the judgement circuit, the contrast ratio adjustment circuit processing an image signal to adjust the contrast ratio in accordance with the contrast ratio adjustment signal; and

10 a brightness adjustment circuit connected to the contrast ratio adjustment circuit and the liquid crystal display panel, the brightness adjustment circuit processing the image signal, which contrast ratio has been adjusted, to adjust the brightness in accordance with the brightness adjustment signal.

Please amend Claim 23 as follows:

23. (Amended) The apparatus of claim 20, wherein the control circuit includes:

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a linear contrast ratio adjustment circuit for receiving the light receiving signal and processing an image signal to adjust the contrast ratio in a linear manner in accordance with the light receiving signal;

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a linear brightness adjustment circuit connected to the linear contrast ratio adjustment circuit and the liquid crystal display panel, the linear brightness adjustment circuit receiving the light receiving signal from the light receiving device and processing the image signal, which contrast ratio has been adjusted, to adjust the brightness in a linear manner in accordance with the light receiving signal;

10 a first judgement circuit connected to cover driving apparatus, the first judgement circuit receiving the light receiving signal from the light receiving device and comparing the light receiving signal with a first criterion value to generate a cover driving signal; and

15 a second judgment circuit connected to the light source, the second judgement circuit receiving the light receiving signal from the light receiving device and comparing the light receiving signal with a second criterion value to generate an ON/OFF signal.

Please amend Claim 26 as follows:

26. (Amended) A liquid crystal display apparatus comprising:

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a liquid crystal display panel for displaying an image having a predetermined contrast ratio and brightness;

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AS
a luminescent unit arranged adjacent to the liquid crystal display panel, wherein the luminescent unit includes a light collector, which collects ambient light, a light source, and a cover, which opens and closes to selectively cover the light collector, wherein the collected ambient light is used as a backlight of the liquid crystal display panel;

a cover driving apparatus for opening and closing the cover;

a first light receiving device substantially countering the ambient light directed toward the light collector to generate a first light receiving signal corresponding to an amount of ambient light collected by the light collector;

10 a second light receiving device for generating a second light receiving signal corresponding to a total amount of light illuminating the liquid crystal panel, which includes the ambient light; and

15 a control circuit connected to the liquid crystal display panel, the first and second light receiving devices, the light source, and the cover driving apparatus, wherein the control circuit controls the ON/OFF of the light source and the opening and closing of the cover in accordance with the first light receiving signal, and adjusts the contrast ratio and the brightness in accordance with the second light receiving signal.

REMARKS

35 U.S.C. § 112

The Examiner rejected Claims 21 under 35 U.S.C. § 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which Applicants regard as the invention. The Examiner rejected Claim 21 on the basis that the limitation